

ENNACOMPLEX 263

Antiwrinkle Complex

Ref : ENNA263

► DEFINITION

ENNACOMPLEX 263 is a botanical complex which softens, tones and firms the skin, clears the complexion, reduces wrinkles, helps to restore suppleness and elasticity, and globally fights the ageing process.

► COMPOSITION

Mixed extracts of Rosemary, Hops, Lemon, Horsetail, and Pine bark, made with water and propylene glycol as solvents.

► COSMETIC ACTIVITY

Rosemary and *Hops*, both rich in astringent compounds, firm and tone the skin.

Lemon contains a high amount of citric acid, an alpha-hydroxy-acid which helps to eliminate dead cells and accelerate cell renewal while cleansing and hydrating the skin. It also contains some ascorbic acid known as an antioxidant and skin-clearing agent that can be effective in erasing brown spots.

Horsetail, rich in restructuring minerals and trace elements, helps to restore the elasticity and suppleness of the skin. These minerals exert their action by stimulating the synthesis activity of the fibrocytes which leads to progressive restoration of the fibrillar apparatus, in particular collagen and elastin.

Pine bark contains procyanidins. University studies show that these molecules have a significant antioxidant activity which is greater than that of vitamins E, C, or beta-carotene, which means that they are more effective in fighting free radicals. Procyanidins also protect collagen against its degradation by collagenase, protect elastin against its degradation by elastase, and increase the resistance of capillaries by decreasing their permeability.

Horsetail, *Hops*, *Rosemary*, and *Lemon*, all contain flavonoids that are able to catch free radicals and protect cellular structures. These flavonoids will reinforce the natural defence system of the skin against free radicals and thus help to fight the ageing process.



► SPECIFICATIONS

Appearance :	Limpid liquid
Colour :	Brown
Odour :	Characteristic
Density at 20°C :	1.045 ± 0.010
Refractive index at 20°C :	1.385 ± 0.010
pH (direct) :	4.0 ± 1.0
Solubility :	In water and hydro-alcoholic solution
Preservation :	0.25 % Phenonip
Identification of Citric acid :	Positive
Identification of Ascorbic acid :	Positive
Identification of Procyanidins :	Positive
Identification of Silicium :	Positive
Identification of Flavonoids :	Positive
Total germs :	< 100 cfu/ml
Yeasts and moulds :	< 100 cfu/ml
Pathogens :	Absence

► APPLICATIONS

Creams, milks, gels, serums, masks, cleansers, toners for the care of mature skin : 2 - 10 %
 Concentrated gels and serums : 25 - 50 %

The ENNACOMPLEX 263 must be added in your preparation at a temperature below 40°C.

► TOXICOLOGY

Acute toxicity : DL 50 oral (rat) > 40 g /kg
 Skin irritation : not irritant
 Skin sensitisation : not sensitising

► INCI IDENTIFICATION

<i>INCI Name (EU)</i>	<i>INCI Name (US)</i>	<i>CAS no.</i>	<i>Einecs no.</i>
Aqua	Water	7732-18-5	231-791-2
Propylene Glycol	Propylene Glycol	57-55-6	200-338-0
Citrus Medica Limonum Fruit Extract	Citrus Medica Limonum (Lemon) Fruit Extract	92346-89-9	296-174-2
Equisetum Arvense Extract	Equisetum Arvense Extract	71011-23-9	275-123-8
Humulus Lupulus Cone Extract	Humulus Lupulus (Hops) Cone Extract	8060-28-4	232-504-3
Pinus Pinaster Bark/Bud Extract	Pinus Pinaster Bark/Bud Extract	90082-75-0	290-166-2
Rosmarinus Officinalis Leaf Extract	Rosmarinus Officinalis (Rosemary) Leaf Extract	84604-14-8	283-291-9

Customs tariff no. (EU): 1302197000

▶ STORAGE

Keep in the original tightly-closed container, at room temperature (20°C), away from light, heat, and humidity sources.

▶ REFERENCES

1. BRUNETON. Pharmacognosy, phytochemistry, medicinal plants. Lavoisier Publishing, Paris, 1995.
2. PARIS & MOYSE. Matière Médicale. Masson, Paris, 1967.
3. BEZANGER & BEAUQUESNE. Plantes médicinales de régions tempérées. Ed. Mabine, Paris.